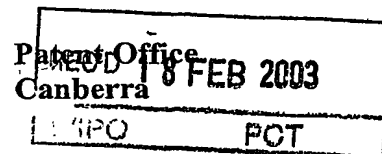




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PCT/PTO 15 JUL 2004
PCT/AU03/00062

#2



I, JULIE BILLINGSLEY, TEAM LEADER EXAMINATION SUPPORT AND SALES hereby certify that annexed is a true copy of the Provisional specification in connection with Application No. PS 0413 for a patent by GREGORY NOEL WENT and KAREN MARGARET WENT as filed on 17 January 2002.



WITNESS my hand this
Thirty-first day of January 2003

J. Billingsley

JULIE BILLINGSLEY
TEAM LEADER EXAMINATION
SUPPORT AND SALES

**PRIORITY
DOCUMENT**
SUBMITTED OR TRANSMITTED IN
COMPLIANCE WITH RULE 17.1(a) OR (b)

Ps 0413

COMPLETE SPECIFICATION
PROVISIONAL PATENT

CONCRETE AND ROCK HYDRAULICALLY OPERATED
JAW CRUSHER BUCKET

THE INVENTION IS DESCRIBED IN THE FOLLOWING STATEMENT

CONCRETE AND ROCK HYDRAULICALLY OPERATED
JAW CRUSHER BUCKET

THIS INVENTION IS A WAY OF CRUSHING CONCRETE AND ROCK TO A MORE EFFECTIVELY REUSEABLE SIZE BY QUARRIES AND ON DEMOLITION SITES.

The problems faced by many quarries are their stockpiles of oversized boulders they cannot crush. The problems faced by many a demolition site is the excessive tip fees to dump large slabs of concrete and footings.

The present method of many quarries to reuse such boulders is to firstly use a rock breaker to downsize each one which is both time consuming and noisy.

The excessive fees charged by many tips contribute to the ever growing concerns of illegal dumping of demolition wastes.

These problems can be overcome by the use of this present invention, which provides a mobile crusher bucket which can quietly downsize boulders in quarries and crush concrete slabs and footings to a recyclable size.

In one form of the invention the concrete crusher bucket comprises of a moulded steel bucket which can be attached to either an excavator or the front end loader, and the other form being the rock crusher bucket which comprises a moulded steel bucket which attaches to only a front end loader, due to its weight.

To assist with understanding the invention, reference will now be made to the accompanying drawings which show an example of each bucket.

In the drawings:

BUCKET FOR CONCRETE shows bucket and components.

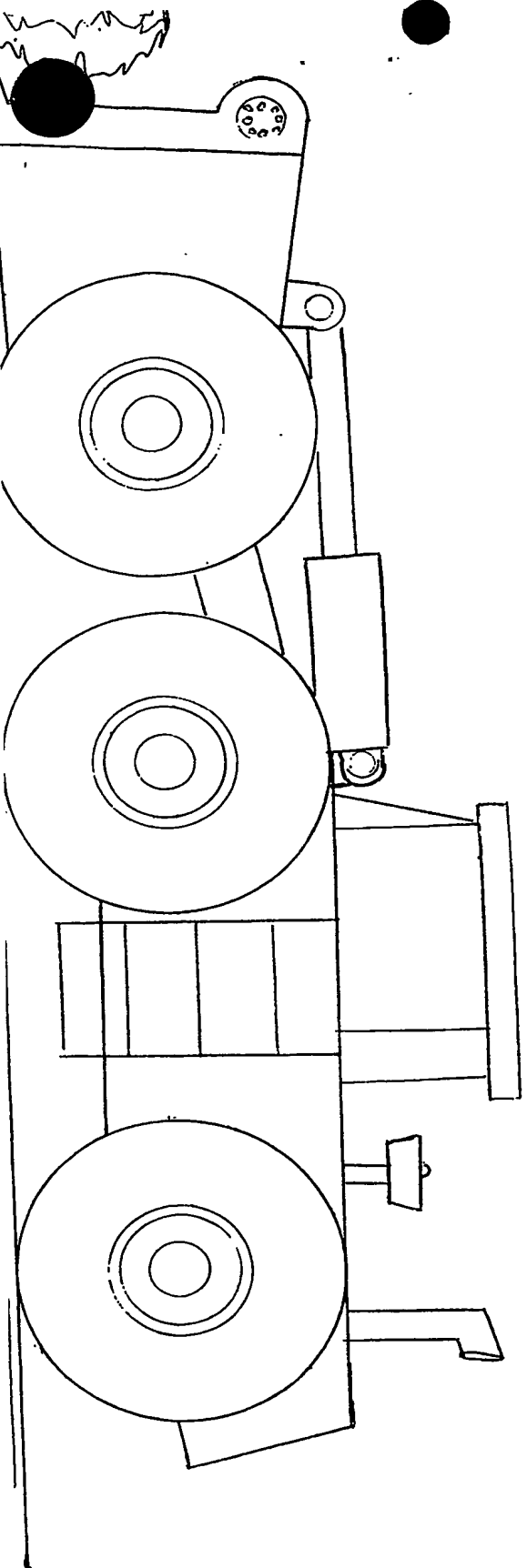
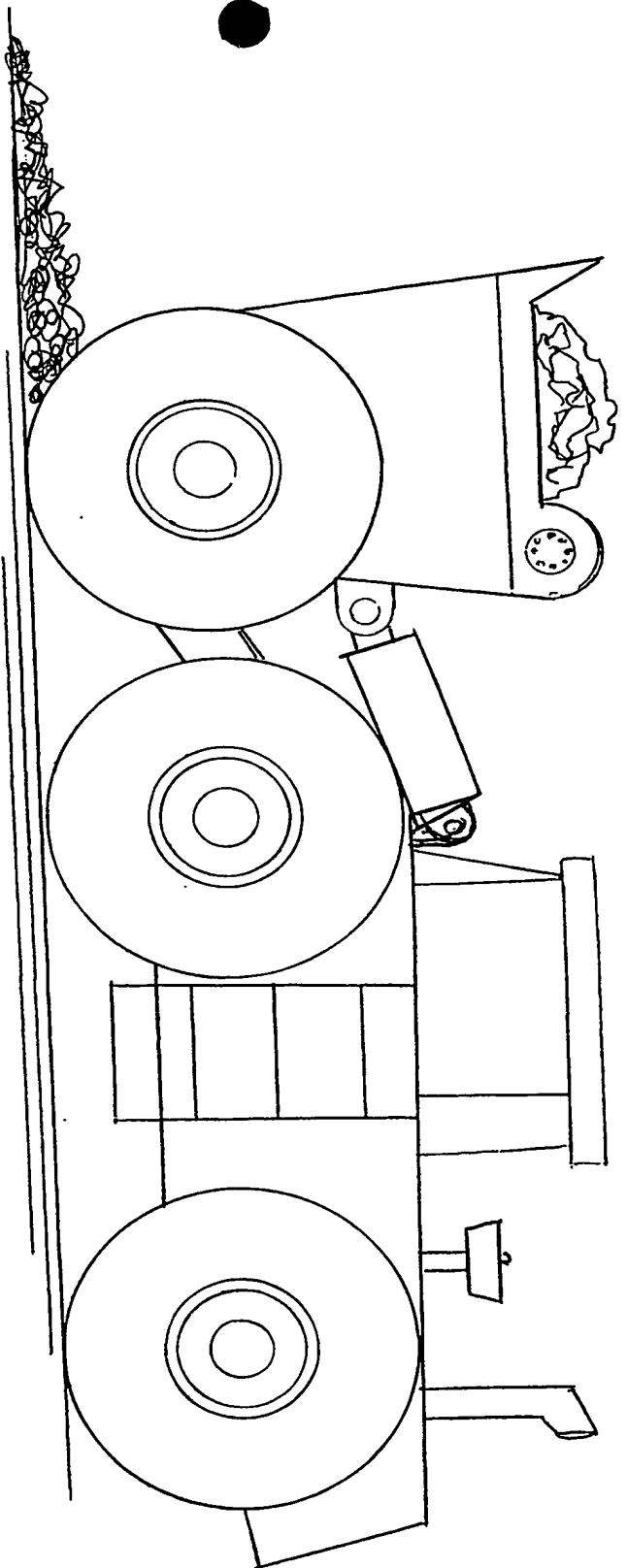
BUCKET FOR BOULDERS shows same.

BUCKET FOR CONCRETE is a smaller and lighter built version of BUCKET FOR BOULDERS. This is a moulded steel bucket comprising of a row of teeth 1 along the top edge of stationary jaw 4a, axle 2, operating jaw 4b attaching at dog bone 11 at base of bucket which attach lever 8, hydraulic ram 7 to operating jaw 4b and loader mounts 5 for fitting to machine.

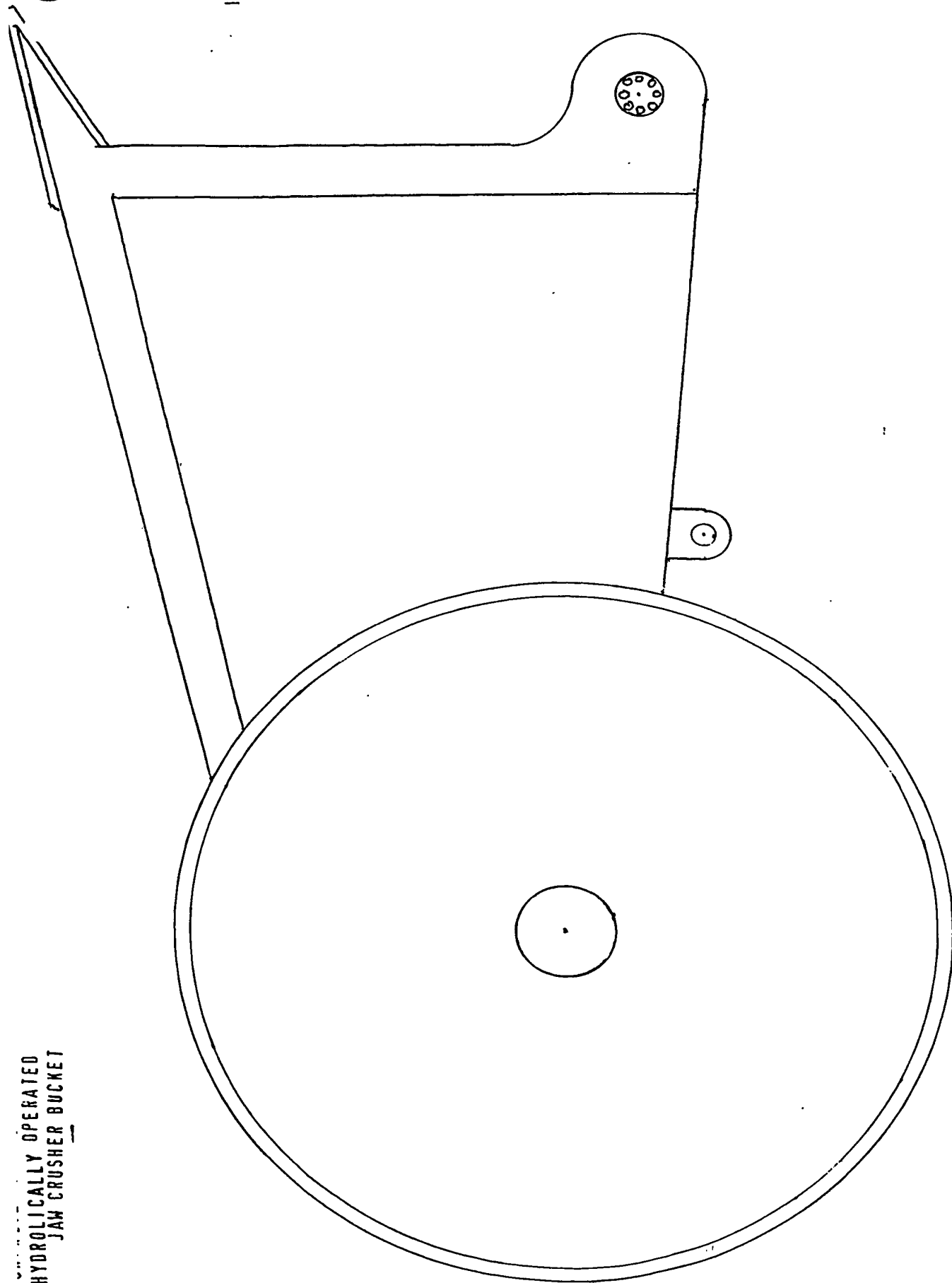
The operation of bucket is ram 7 on operating jaw 4b pushes back on lever 8 forcing dog bone 11 through axle at 10 to move base of operating jaw 4b forward toward stationary jaw 4a, thus, crushing concrete picked up in bucket and releasing crushed material at 12.

BUCKET FOR BOULDERS is a larger and heavier built version of BUCKET FOR CONCRETE. This is also a moulded steel bucket comprising same components as BUCKET FOR CONCRETE and same crushing mechanism. Custom building larger size scales, allowing boulders of 2 metres and more to be crushed.

CONCRETE & ROCK
HYDROLOGICALLY OPERATED
JAW CRUSHER BUCKET



-CONCRETE CRUSHER BUCKET

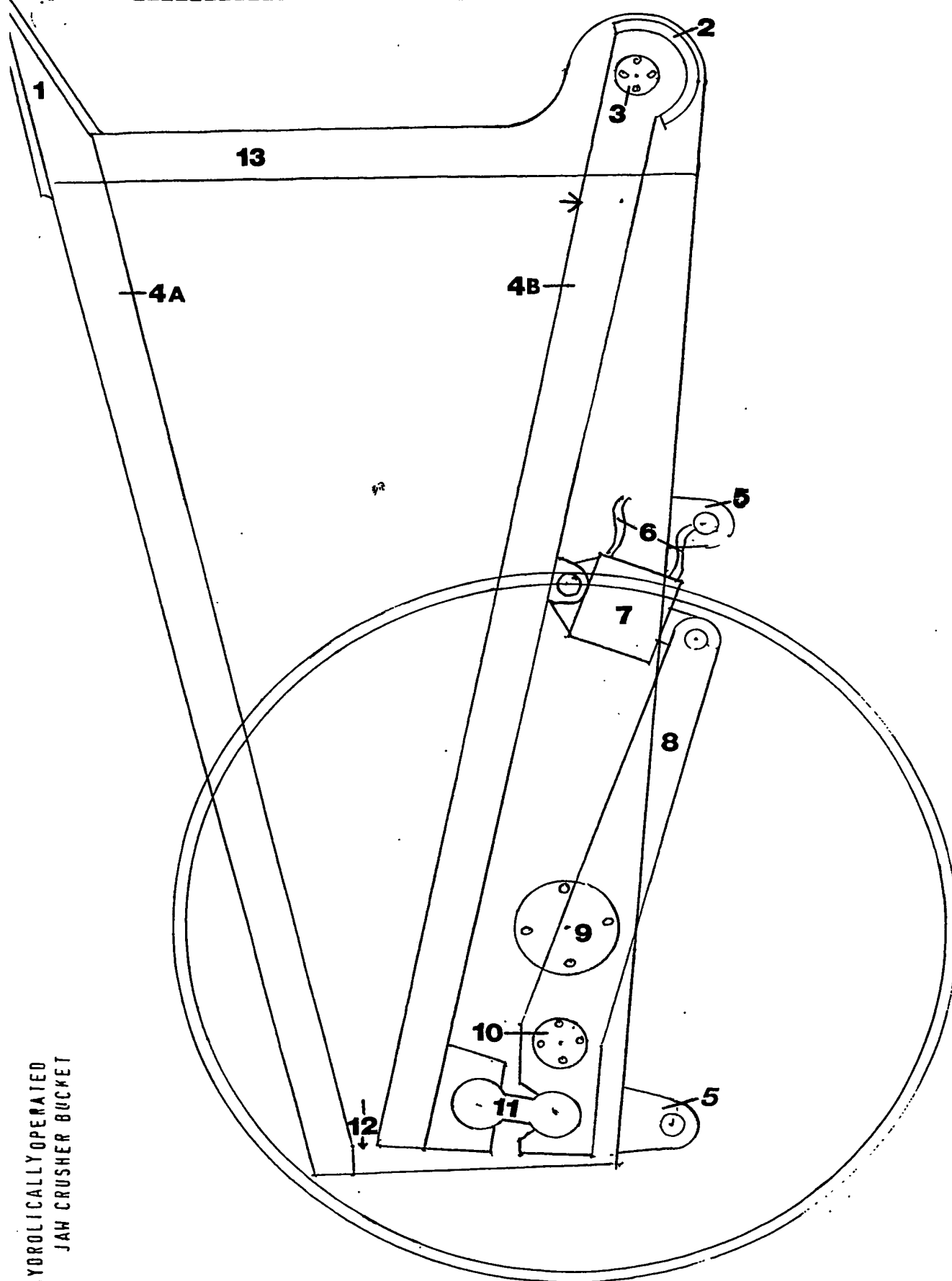


HYDROLOGICALLY OPERATED
JAW CRUSHER BUCKET

KEY TO COMPONENTS ON BUCKET (CONCRETE)

1. TEETH
2. AXLE
3. LOCK PINS
- 4a. STATIONARY JAW
- 4b. OPERATING JAW
5. LOADER MOUNTS
6. HYDRAULIC OIL HOSES
7. RAM
8. LEVER
9. AXLE MOUNTS TO FIT WHEELS
10. FULLCRUM PIVOT AXLE
11. DOG BONE
12. EXIT FOR CRUSHED CONCRETE
13. THICKENINGS

BUCKET FOR CONCRETE



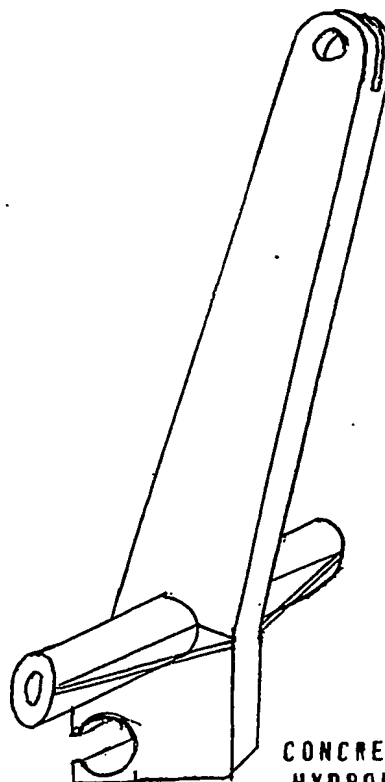
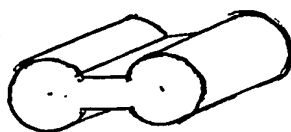
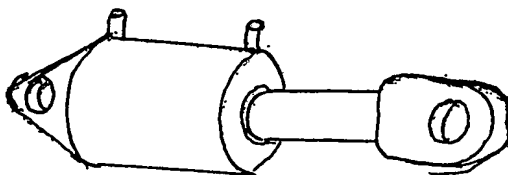
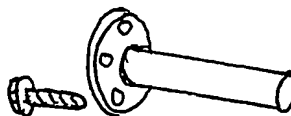
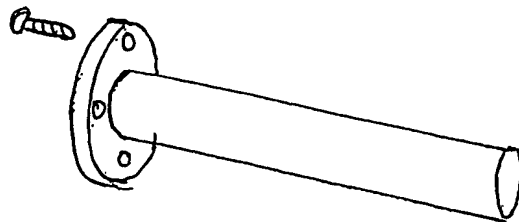
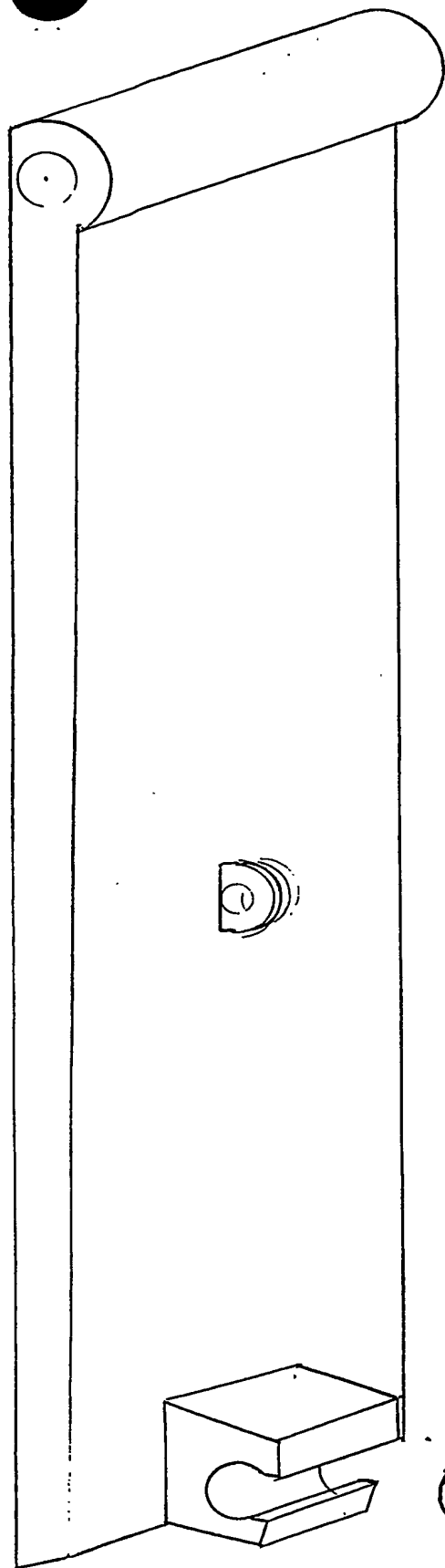
HYDROLOGICALLY OPERATED
JAW CRUSHER BUCKET



CONCRETE & ROCK
HYDROLOGICALLY

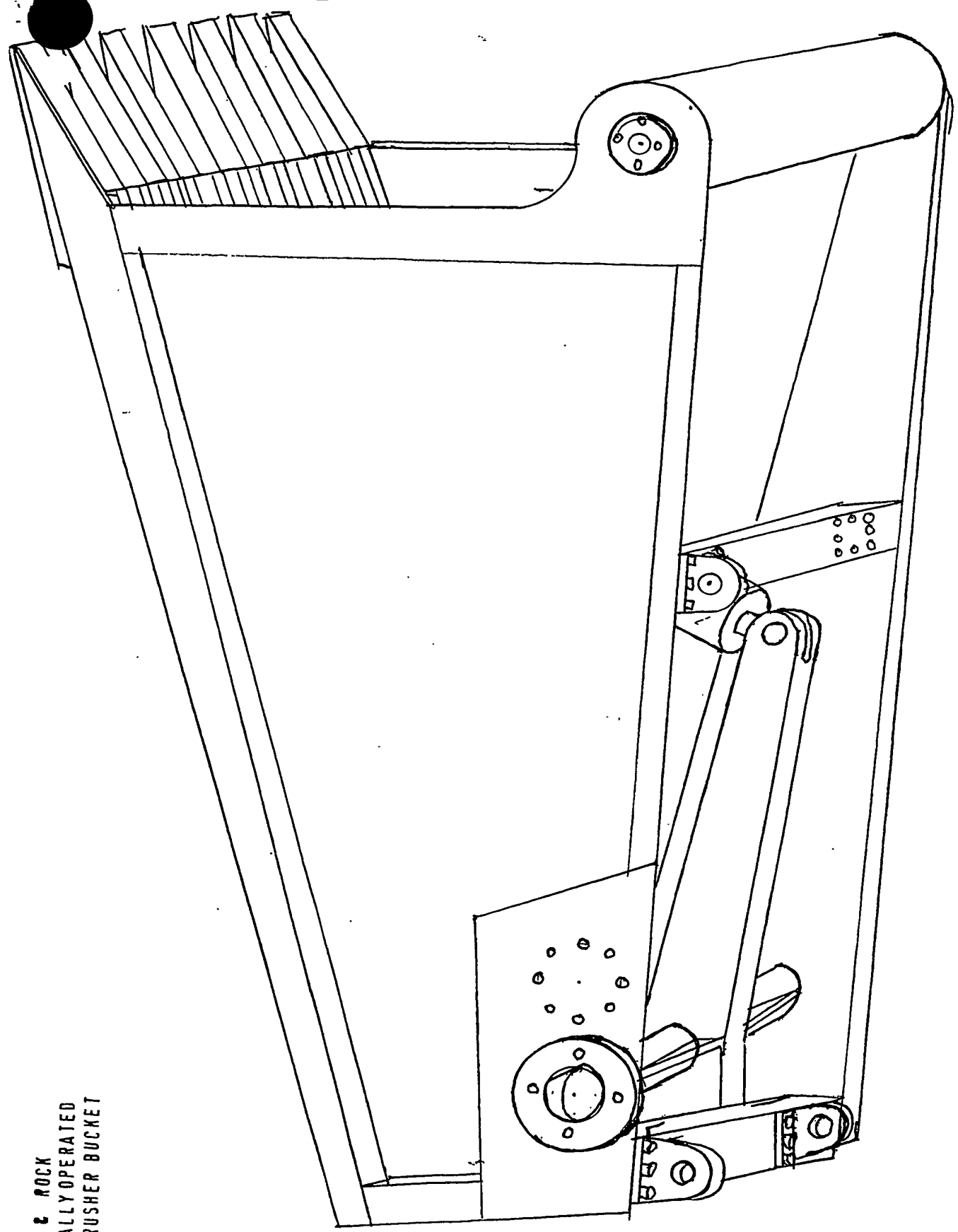
NOT TO SCALE

COMPONENTS



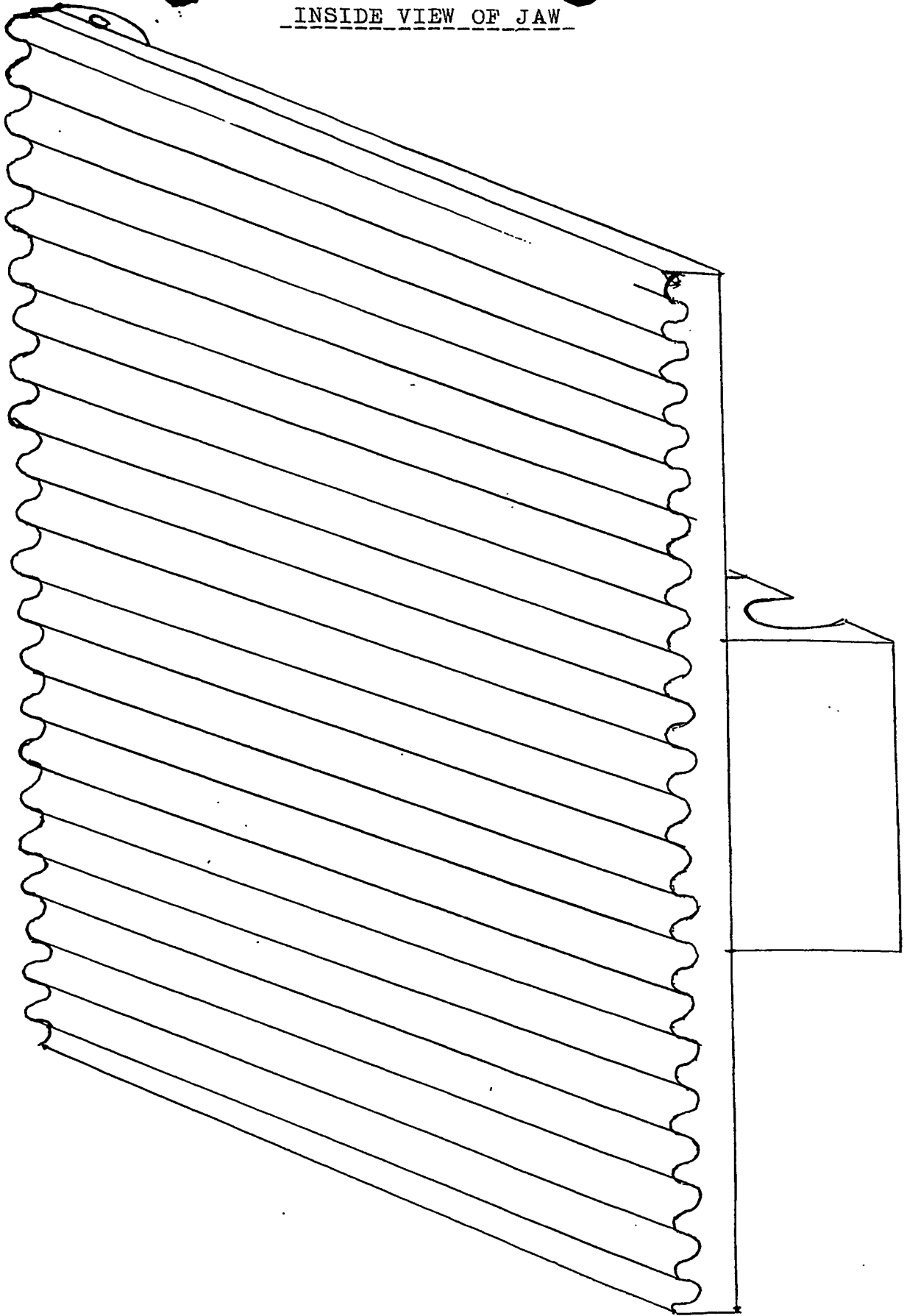
CONCRETE & ROCK
HYDROLOGICALLY OPERATE
JAW CRUSHER BUCK

3 DIMENSIONAL VIEW WITH COMPONENTS



CONCRETE & ROCK
HYDROLOGICALLY OPERATED
JAW CRUSHER BUCKET

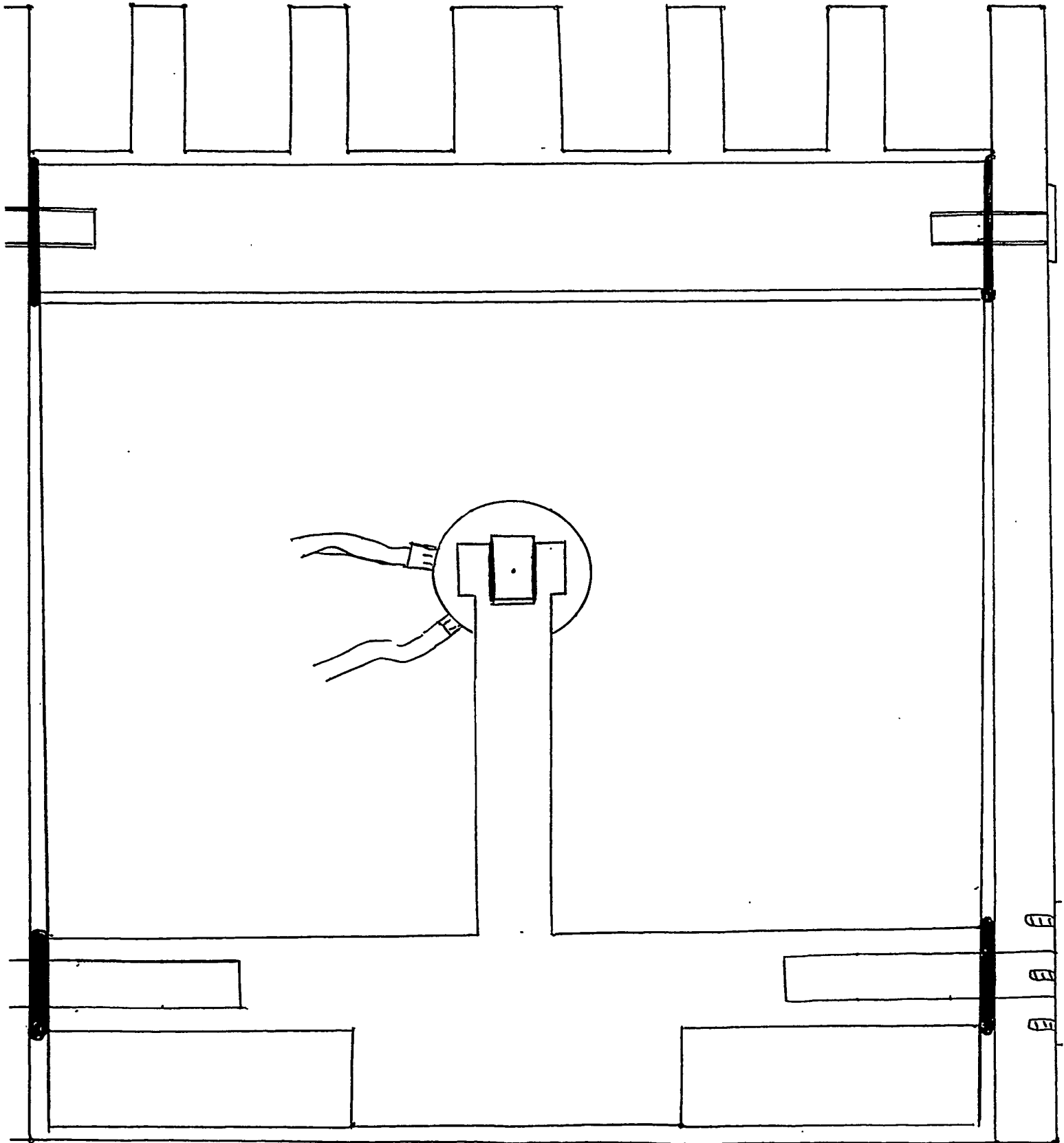
INSIDE VIEW OF JAW



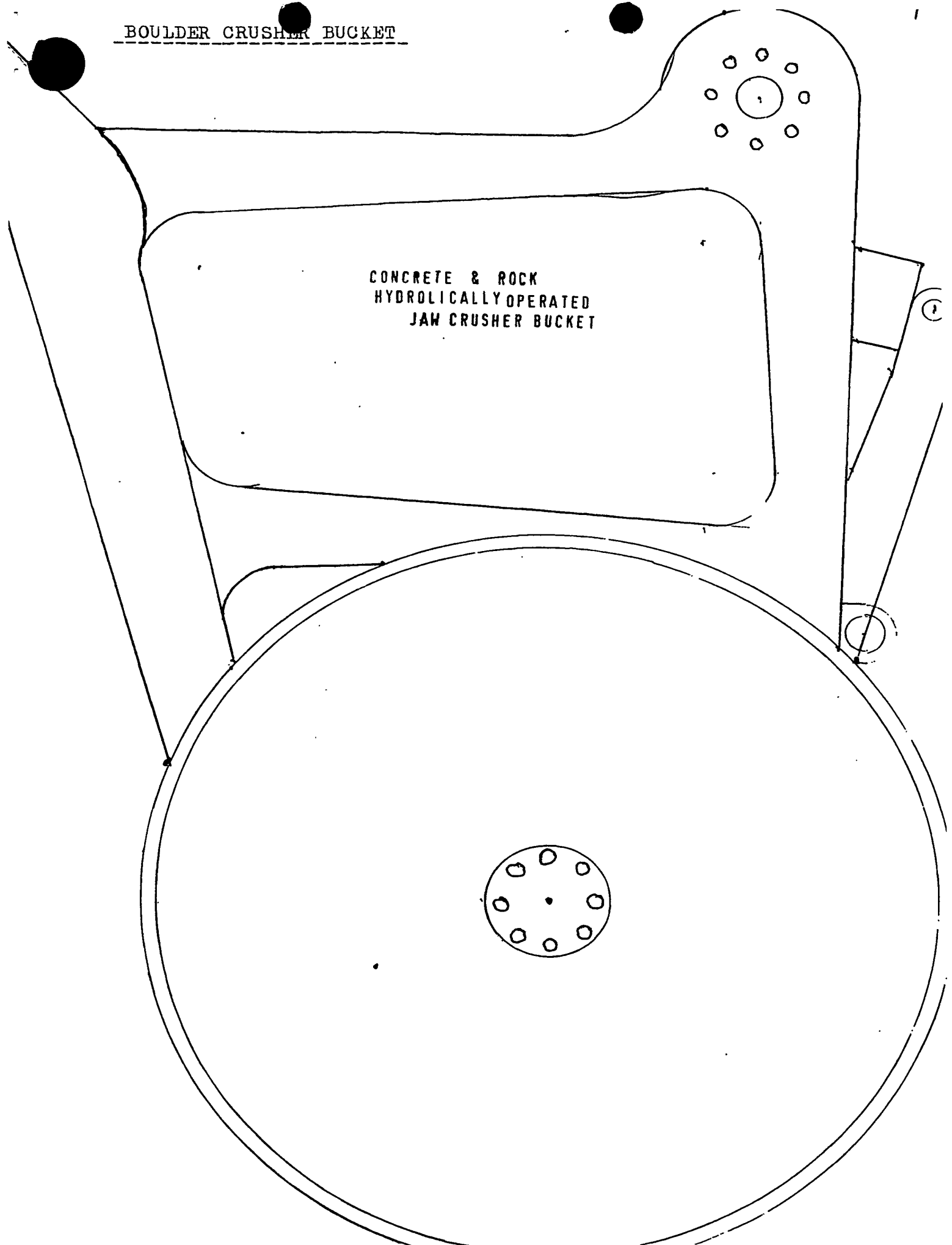
HYDROLOGICALLY OPERATED
JAW CRUSHER BUCKET

7
CONCRETE & ROCK
HYDROLICALLY OPERATED
JAW CRUSHER BUCKET

REAR VIEW OF BUCKET



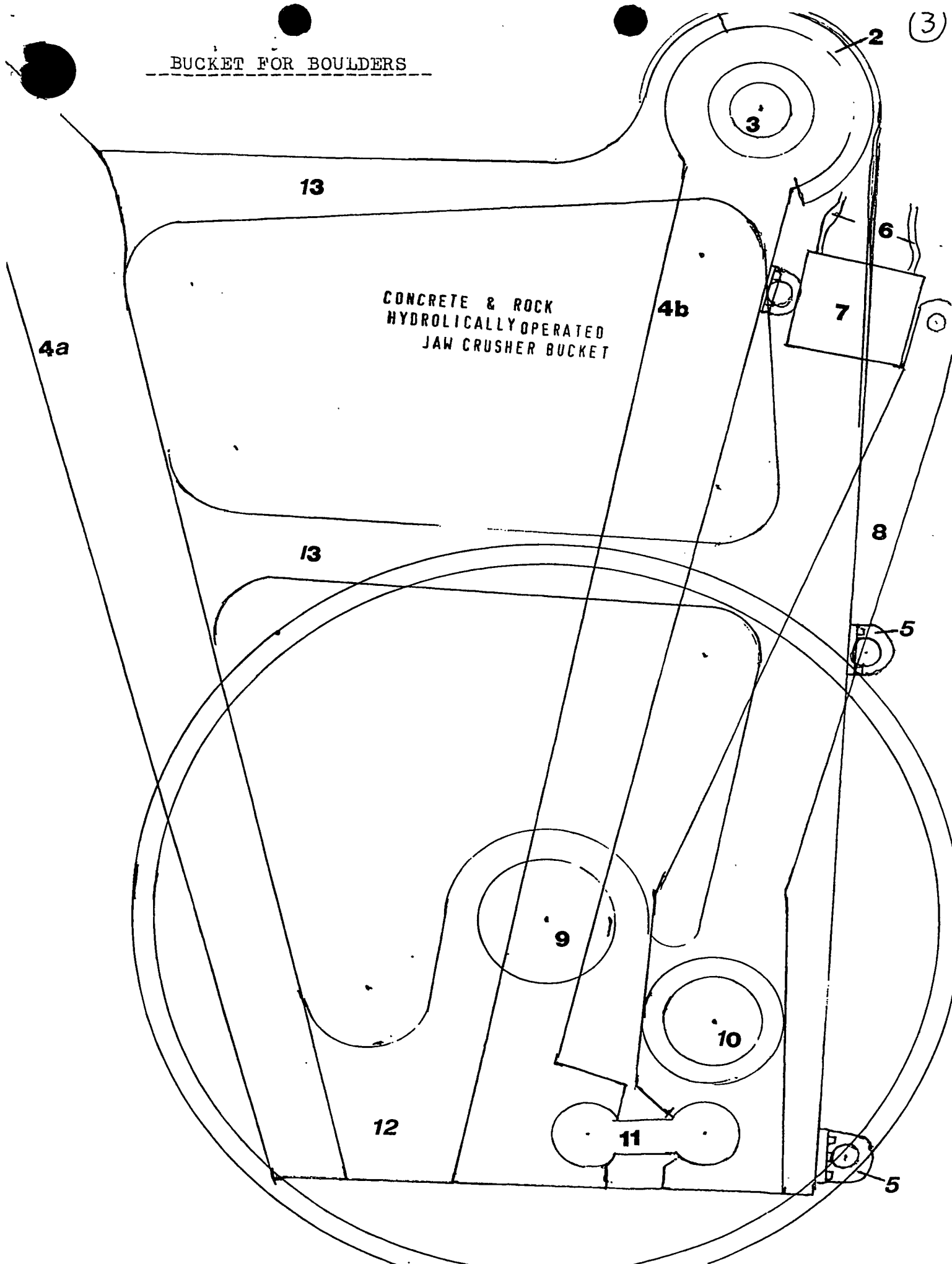
BOULDER CRUSHER BUCKET

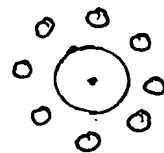


KEY TO COMPONENTS ON BUCKET (BOULDERS)

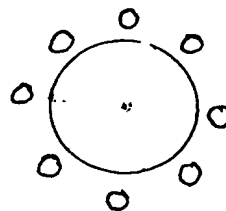
1. TEETH
2. AXLE
3. LOCK PINS
- 4a. STATIONARY JAW
- 4b. OPERATING JAW
5. LOADER MOUNTS
6. HYDRAULIC OIL HOSES
7. RAM
8. LEVER
9. AXLE MOUNTS TO FIT WHEELS
10. FULLCRUM PIVOT AXLE
11. DOG BONE
12. EXIT FOR CRUSHED ROCK
13. THICKENINGS

BUCKET FOR BOULDERS





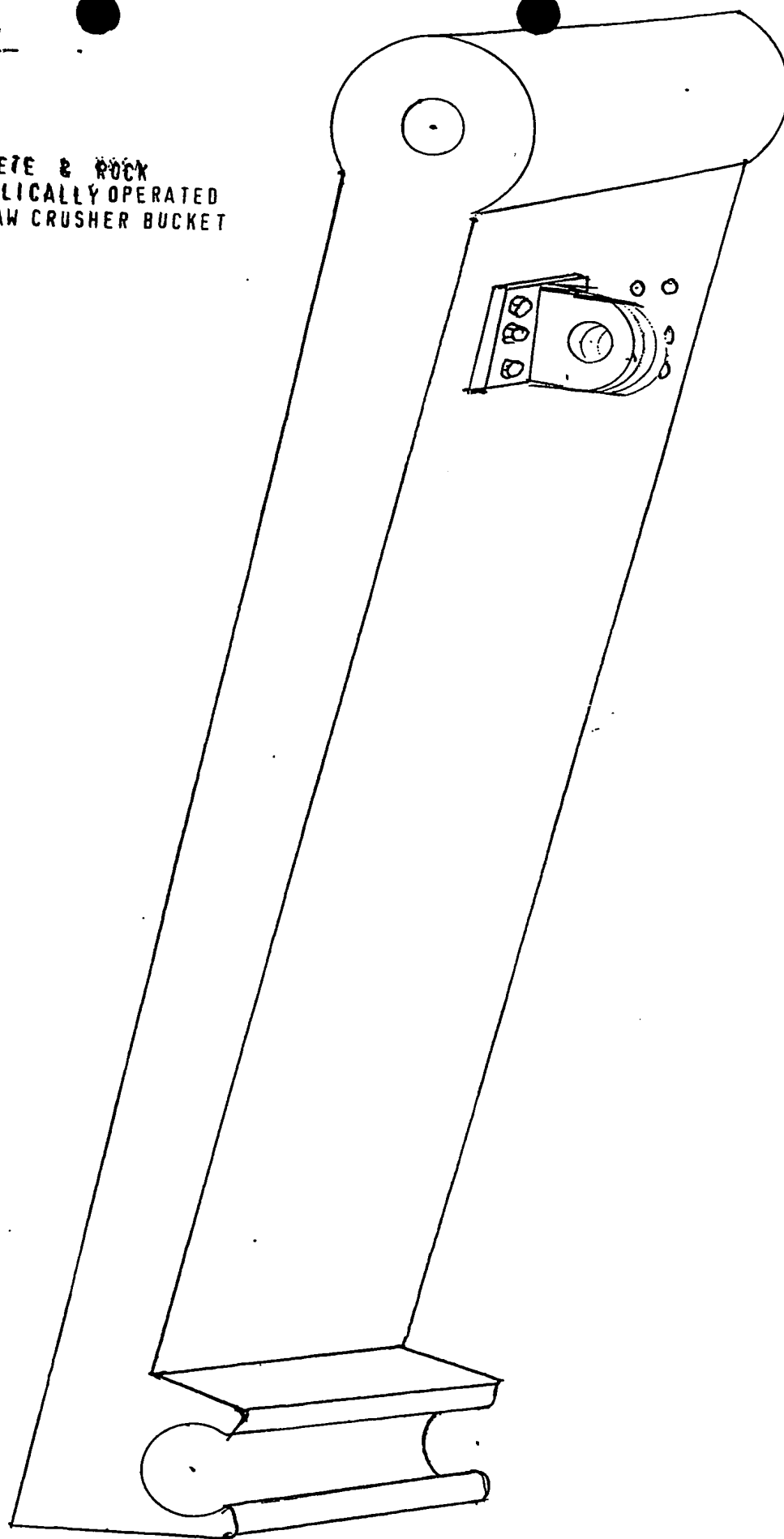
CONCRETE & ROCK
HYDROLOGICALLY OPERATED
JAW CRUSHER BUCKET



OPERATING JAW

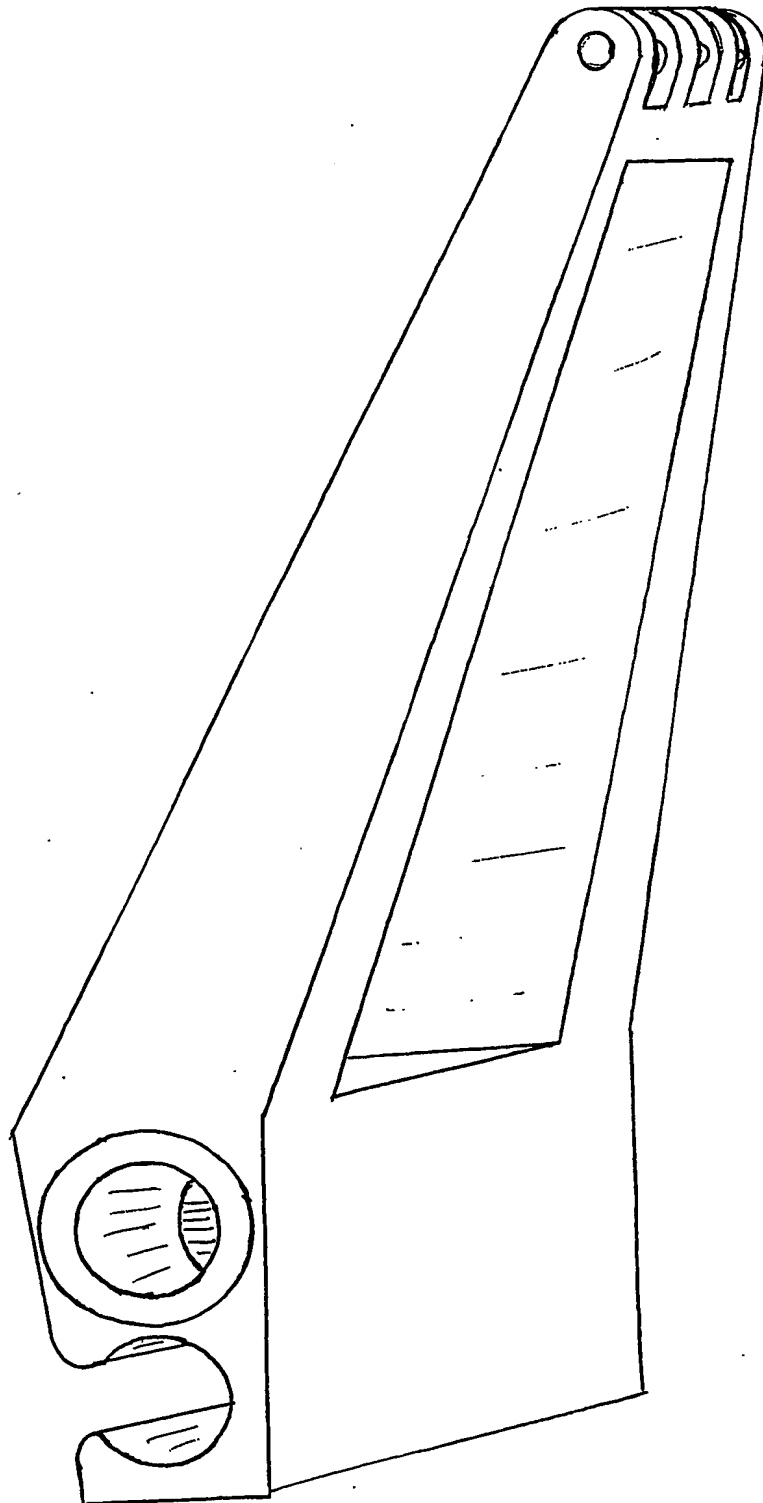
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CONCRETE & ROCK
HYDROLOGICALLY OPERATED
JAW CRUSHER BUCKET



OPERATING ARM

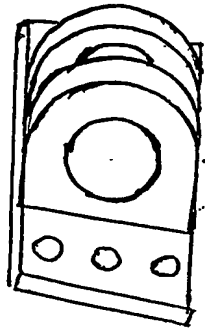
CONCRETE & ROCK
HYDROLOGICALLY OPERATED
JAW CRUSHER BUCKET



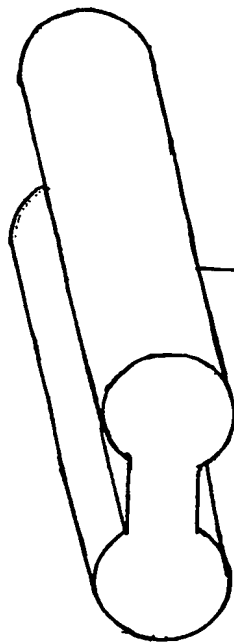
COMPONENTS

7

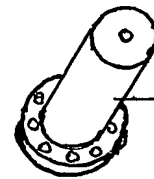
CONCRETE & ROCK
HYDROLICALLY OPERATED
JAW CRUSHER BUCKET



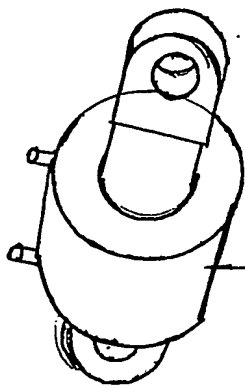
MOUNT



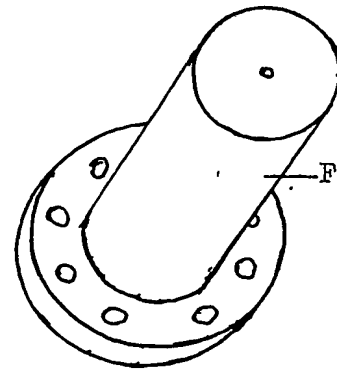
DOG BONE



LOCK PIN



RAM



FULLCRUM
PIVOT AXLE

ABSTRACT

A CONCRETE AND ROCK HYDRAULICALLY OPERATED JAW CRUSHER BUCKET is disclosed. The bucket is a hydraulic ram 7 on operating jaw 4b pushing on lever 8 forcing the base of operating jaw 4b forward toward stationary jaw 4a, thus allowing material in bucket to be crushed and released onto the ground at 12 .

APPLICANTS:

GREGORY NOEL WENT



KAREN MARGARET WENT



DATE:

11/02/02